

What is claimed is:

Sub
a1
1. A plasma display panel comprising:

a rear substrate;

5 a front substrate spaced from the rear substrate and forming a discharge space between the rear and front substrates;

partition walls between the front and rear substrates sectioning the discharge space into red, green, and blue discharge cells respectively having coatings of fluorescent substances producing red, green, and blue light, respectively, so that areas of
10 the discharge cells differ in accordance with a ratio of efficiencies of light radiation by the respective fluorescent substances;

address electrodes on the rear substrate;

discharge maintenance electrodes, including pairs of first and second electrodes, on the front substrate and extending in a direction crossing the address electrodes; and

15 first, second and third transparent electrodes extending from the first and second electrodes over at least parts of the red, green, and blue discharge cells, respectively.

2. The plasma display panel as claimed in claim 1, wherein the areas of discharge cells are inversely proportional to the efficiencies of light radiation of the
20 fluorescent substances of the red, green, and blue discharge cells.

3. The plasma display panel as claimed in claim 1, wherein the blue discharge cell has a larger area than the red and green discharge cells.

25 4. The plasma display panel as claimed in claim 1, wherein the areas of the first, second, and third transparent electrodes differ in accordance with the ratio of efficiencies of light radiation by the fluorescent substances of the red, green, and blue discharge cells where the first, second, and third transparent electrodes are respectively disposed.

10046332-011702

Sub
a2

5. The plasma display panel as claimed in claim 4, wherein the areas of the first, second, and third transparent electrodes are inversely proportional to the efficiencies of light radiation of the fluorescent substances of the red, green, and blue discharge cells.

5 6. The plasma display panel as claimed in claim 4, wherein the area of the third transparent electrode disposed partially over the blue discharge cell is larger than the areas of the first and second transparent electrodes.

7. The plasma display panel as claim in claim 4, wherein the areas of the first,
10 second, and third transparent electrodes are in a ratio of approximately 0.65-0.7:0.9:1.

8. The plasma display panel as claimed in claim 1, wherein the areas of the respective discharge cells are determined by widths of the partition walls surrounding each discharge cell.

Sub
a3

9. The plasma display panel as claimed in claim 8, wherein the areas of discharge cells are inversely proportional to the efficiency of light radiation of the fluorescent substances of the red, green, and blue discharge cells.

20 10. The plasma display panel as claimed in claim 8, wherein the area of the blue discharge cell is larger than the areas of the red and green discharge cells.

Sub
a4

11. The plasma display panel as claimed in claim 8, wherein the partition walls include pairs of main partition walls parallel to each other, having the same width, and
25 on which first and second electrodes are respectively disposed, and auxiliary partition walls having different widths, transverse to and connected to the main partition walls, defining the respective discharge spaces having different areas.

12. A plasma display panel comprising:

a rear substrate;

a front substrate spaced from the rear substrate and forming a discharge space between the rear and front substrates;

5 partition walls between the front and rear substrates and including main partition walls arranged in stripes spaced from each other and auxiliary partition walls transverse to and connected to the main partition walls, and defining red, green, and blue discharge cells having coatings of fluorescent substances respectively producing red, green, and blue light, so that the areas of the discharge cells differ in accordance with a ratio of
10 efficiencies of light radiation by the fluorescent substances;

address electrodes on the rear substrate; and

pairs of first and second electrodes on the front substrate and extending in a direction crossing the address electrodes.

15 13. The plasma display panel as claimed in claim 12, wherein respective auxiliary partition walls have different widths and the areas of the discharge cells are determined by the different widths of the auxiliary partition walls.

20 14. The plasma display panel as claimed in claim 12, wherein the areas of discharge cells are inversely proportional to the efficiencies of light radiation of the fluorescent substances of the red, green, and blue discharge cells.

25 15. The plasma display panel as claimed in claim 12, wherein the blue discharge cell has a larger area than the areas of the red and green discharge cells.

16. The plasma display panel as claimed in claim 12, wherein the first and second electrodes are parallel to the main partition walls and do not cover the discharge cells, and including first, second, and third transparent electrodes extending from the first and second electrodes over at least parts of the red, green, and blue discharge cells,
30 respectively.

24
conced

10046832, 011702

Sub
25

Sub
a6 7

17. The plasma display panel as claimed in claim 16, wherein the areas of the first, second, and third transparent electrodes differ in accordance with the ratio of efficiencies of light radiation by the fluorescent substances of the red, green, and blue discharge cells where the first, second, and third transparent electrodes are respectively disposed.

18. The plasma display panel as claimed in claim 17, wherein the areas of the first, second, and third transparent electrodes are inversely proportional to the efficiencies of light radiation of the fluorescent substances of the red, green, and blue discharge cells.

19. The plasma display panel as claimed in claim 17, wherein the area of the third transparent electrode disposed partially over the blue discharge cell is larger than the areas of the first and second transparent electrodes.

20. The plasma display panel as claim in claim 17, wherein the areas of the first, second, and third transparent electrodes are in a ratio of approximately 0.65-0.7:0.9:1.

10046832-01100